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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/400,297	09/21/1999	WATARU ITO	1982-0137P	3285
	7590 07/30/2003			
BIRCH STEWART KOLASCH 7 BIRCH LLP			EXAMINER	
P O BOX 747 FALLS CHURCH, VA 220400747			MAHMOUDI, HASSAN	
			ART UNIT	PAPER NUMBER
			2175	4
			DATE MAILED: 07/30/2003	1

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)			
•		09/400,297	ITO, WATAR	υ		
	Office Action Summary	Examiner	Art Unit			
•		Tony Mahmoudi	2175			
Period fo	The MAILING DATE of this communication		sheet with the correspondence	e address		
A SHO THE N - Extens after S - If the - If you - Failur - Any re	PRIENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION Sions of time may be available under the provisions of 37 CFI (8) (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stiply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, howev I. a reply within the statutory minir criod will apply and will expire S tatute, cause the application to	er, may a reply be timely filed num of thirty (30) days will be considere X (6) MONTHS from the mailing date of become ABANDONED (35 U.S.C. § 13	this communication.		
1)	Responsive to communication(s) filed on					
2a) <u></u> □	This action is FINAL . 2b)⊠	This action is non-fin	al.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) 🖂	Claim(s) <u>1-20</u> is/are pending in the applica	ation.				
4	a) Of the above claim(s) is/are with	drawn from considera	tion.			
5)	Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>1-20</u> is/are rejected.					
7) 🗌	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction ar	nd/or election requiren	nent.			
Application	on Papers					
• —	he specification is objected to by the Exan					
10)□ T	he drawing(s) filed on is/are: a)□ a	ccepted or b) objecte	d to by the Examiner.			
_	Applicant may not request that any objection t		-	· ·		
.11)∐ T	he proposed drawing correction filed on _		d b) disapproved by the Ex	aminer.		
	If approved, corrected drawings are required i		on.			
, —	he oath or declaration is objected to by the	e Examiner.				
Priority u	nder 35 U.S.C. §§ 119 and 120					
•	Acknowledgment is made of a claim for for	eign priority under 35	U.S.C. § 119(a)-(d) or (f).			
a)[2	☑All b) Some * c) None of:					
	 Certified copies of the priority docum 	nents have been recei	ved.			
	Certified copies of the priority docum	nents have been recei	ved in Application No	<u>.</u> ·		
	3.☐ Copies of the certified copies of the application from the Internationa ee the attached detailed Office action for a	l Bureau (PCT Rule 1	7.2(a)).	onal Stage		
14) 🗌 A	cknowledgment is made of a claim for dom	estic priority under 35	U.S.C. § 119(e) (to a provis	ional-application).		
15) 🗌 A	☐ The translation of the foreign language cknowledgment is made of a claim for dom	provisional application estic priority under 35	U.S.C. §§ 120 and/or 121 SUPER			
Attachment	•	—		HNOLOGY CENTER 2100		
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No	5) 🗍	Interview Summary (PTO-413) Pap Notice of Informal Patent Applicatio Other:			
S. Patent and Tra TO-326 (Rev		e Action Summary	Part of Paper N	0. 4		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

 Claims 12-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 12 recites the limitation "said fourth process" in line 4. There is insufficient antecedent basis for these limitations in the claim.

Claim 12 recites the limitation "said third process" in line 5. There is insufficient antecedent basis for these limitations in the claim.

For the purpose of examination, the examiner is making the assumption that the term "process" mentioned above is meant to be "step". Appropriate correction is required.

Claim 13 is rejected under 35 U.S.C. 112, second paragraph, as being dependent from the rejected dependent claim 12.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by <u>Iizuka</u> (U.S. Patent No. 5,664,030.)

As to claim 1, <u>lizuka</u> teaches an image encrypting method (see Abstract, where "encrypting" is read on "encoding" and "scrambling"), comprising:

a first process of inputting an image by reading an image file expressing the image (see column 2, lines 46-48);

a second process of dividing the image file into portion image data of a predetermined unit (see column 2, lines 49-64);

a third process of generating information incidental to the portion image data (see column 11, line 62 through column 12, line 10), the incidental information including boundary information which expresses boundary dividing respective the portion image data (see column 17, lines 30-65, and see column 19, lines 28-55); and

a fourth process of encrypting the portion image data, wherein image-handling of the portion image data is performed on the basis of the incidental information (see column 25, line 30 through column 26, line 52, where "encrypting" is read on "scrambling".)

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As to claim 2, <u>Iizuka</u> teaches the method further comprising:

a fifth process of generating an encrypted image file from encrypted portion image data generated in the fourth process and the incidental information generated in the third process (see column 25, lines 63-67, where "portion" is read on "positional relationship".)

As to claims 3, 8, 13, and 18, <u>Iizuka</u> teaches wherein the encrypted image file (see Abstract) includes a plurality of marking means (see column 3, lines 38-42), each of the marking means being attached to respective encrypted portion image data (see column 19, lines 20-27) so as to identify respective boundaries between the encrypted portion image data in the encrypted image file (see column 19, lines 28-35.)

As to claim 4, <u>lizuka</u> teaches wherein the incidental information is encrypted, and an encrypted image file including encrypted portion image data and encrypted incidental information is generated in the fourth process (see column 25, line 30 through column 26, line 52, where "encrypting" is read on "scrambling".)

As to claims 5, 10, 15, and 20, <u>lizuka</u> teaches wherein the incidental information includes each position information of respective encrypted portion image data in the encrypted image file and each size information of respective the encrypted portion image data (see column 25, line 62 through column 26, line 46, where "scrambled" is read on "encrypted".)

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As to claim 6, <u>lizuka</u> teaches an image encrypting device (see Abstract, where "encrypting" is read on "encoding" and "scrambling"), comprising:

inputting means which inputs an image by reading an image file expressing the image (see column 2, lines 46-48);

image portion unit dividing means which divides the image file into portion image data of a predetermined unit (see column 2, lines 49-64);

encrypting means which encrypts the portion image data (see column 25, line 30 through column 26, line 52, where "encrypting" is read on "scrambling");

identifier generating means which generates information incidental to the portion image data (see column 11, line 62 through column 12, line 10), the incidental information which expresses boundary dividing respective the portion image data (see column 17, lines 30-65, and see column 19, lines 28-55); and

file generating means which generates an image file on the basis of the portion image data encrypted by the encrypting means and the incidental information generated by the identifier generating means, wherein image-handling of the portion image data is performed on the basis of the incidental information (see column 25, line 30 through column 26, line 52.)

As to claim 7, <u>Iizuka</u> teaches, wherein the image file generated by the generating means is an encrypted image file (see column 25, lines 30-62, where "encrypted" is read on "scrambled".)

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As to claim 9, <u>lizuka</u> teaches wherein the encrypting means encrypts the incidental information, and the file generating means generates the image file on the basis of the portion image data encrypted by the encrypting means and the incidental information encrypted by the encrypting means (see column 25, line 30 through column 26, line 52, where "encrypting" is read on "scrambling".)

As to claim 11, <u>Iizuka</u> teaches a recording medium (see Abstract) on which are recorded image encrypting procedures (see column 2, lines 37-45. For the remaining steps of this claim, the applicant is directed to discussions and remarks made in claims 1 and 6 above.)

As to claims 12 and 17, <u>lizuka</u> teaches generating an encrypted image file from encrypted portion image data generated in the fourth process and the incidental information generated in the third process (see column 25, line 30 through column 26, line 52, where "encrypting" is read on "scrambling".)

As to claims 14 and 19, <u>Iizuka</u> teaches wherein the incidental information is encrypted, and an encrypted image file including encrypted portion image data and encrypted incidental information is generated in the fourth step (see column 25, line 30 through column 26, line 52, where "encrypting" is read on "scrambling".)

As to claim 16, <u>Iizuka</u> teaches a recording medium (see Abstract) on which an encrypted image file is recorded (see column 2, lines 37-45), the encrypted image file being generated

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(for the remaining steps of this claim, the applicant is directed to discussions and remarks made in claims 1 and 6 above.)

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of art with respect to methods and systems of Image processing, image encryption, image recording, and image storage in general:

Patent No.	Issued to	Cited for teaching
US 5,502,576	Ramsay et al.	High speed conversion of documents into images.
US 5,748,805	Withgott et al. Image identification and image encryption.	

6. Any inquiries concerning this communication or earlier communications from the examiner should be directed to Tony Mahmoudi whose telephone number is (703) 305-4887. The examiner can normally be reached on Mondays-Fridays from 08:00 am to 04:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici, can be reached at (703) 305-3830.

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July 25, 2003

DOV POPOVICI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100